

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 15 JUN 2004

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Applicant's or agent's file reference SCH/P33118	FOR FURTHER ACTION See Notification of Transmitted Preliminary Examination Report (Form PCT/PEA/416)					
international application No.	International filing date (day/more 25.09.2003	nth/year) Priority 27.09	date (day/month/year) .2002			
PCT/EP 03/10930						
International Patent Classification (IPC) or b C07D213/82, C07D213/82	oth national classification and IPC					
AppAcant GLAXO GROUP LIMITED et al.						
This international preliminary exa Authority and is transmitted to the	mination report has been prepe applicant according to Article	ared by this Internationa 36.	l Preliminary Examining			
2. This REPORT consists of a total	of 4 sheets, including this cov	er sheet.				
hoon amandad and are the	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total	of sheets.					
V *						
This report contains indications in the second contains in the	relating to the following items:		*			
Basis of the opinion						
II □ Priority						
III 🛛 Non-establishment o	f opinion with regard to novelty	, inventive step and ind	ustrial applicability			
IV Lack of unity of inver	ntion					
V 🛭 Reasoned statement citations and explana	t under Rule 66.2(a)(ii) with reg ations supporting such stateme	gard to novelty, inventive ent	e step or industrial applicability;			
VI Certain documents of						
	and the state of t					
VIII Certain observations on the International application			•			
		e of completion of this repo	urt .			
Date of submission of the demand	Dat	a or combiguous or mis rabo				
29.03.2004	14.	.06.2004				
Name and mailing address of the internat preliminary examining authority:	lonal Aut	horized Officer	September Pelanco.			
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International application No.

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	313	•			

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages						
	1-109		as originally filed					
	Ol!-	Numbers						
		ms, Numbers	as originally filed					
	1-9							
2.	 With regard to the language, all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item. 							
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publi	cation of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).					
з.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 							
		contained in the inter	rnational application in written form.					
		filed together with the	e international application in computer readable form.					
		furnished subsequer	ntly to this Authority in written form.					
			ntly to this Authority in computer readable form.					
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4. The amendments have resulted in the cancellation of:								
		the description,	'pages''					
		the claims,	Nos.:					
		the drawings,	sheets:					
5	. 🗆	This report has been been considered to	n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement s report.)	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)					
6	. Ad	ditional observations,	if necessary:					

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		-establishment of opinion with						
۱.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of:							
٠		the entire international application	on,					
	☒	claims Nos. 8,9 (IA)						
		because:						
	Ø	the said international application does not require an international	n, or th al prelim	e said claims minary exam	s Nos. 8, ination (s	9 (IA) re specify):	late to the following subject matter which	
		see separate sheet						
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so that no meaningful opinion could be formed (specify):						low) or said claims Nos. are so unclear		
the claims, or said claims Nos. are so inadequately supported by the description that no meaning could be formed.					e description that no meaningful opinion			
		no international search report h						
2.	 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide an or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 					ut due to the failure of the nucleotide and in Annex C of the Administrative		
		the written form has not been t	urnish	ed or does n	ot compl	y with th	e Standard.	
		the computer readable form ha	as not l	been furnishe	ed or doe	s not co	mply with the Standard.	
V	. Re	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1	. St	atement .					•	
	No	ovelty (N)	Yes: No:	Claims Claims	1-9		·····	
	in	ventive step (IS)	Yes: No:	Claims Claims	1-9			
	În	dustrial applicability (IA)	Yes: No:	Claims Claims	1-7		••	
2). C	itations and explanations						

see separate sheet

Reference is made to the following document:

D1: WO 02 062750 A (SCHERING CORP) 15 August 2002 (2002-08-15)

SECTION III

Claims 8 and 9 relate to subject-matter considered by this Authority to be covered by the

provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

SECTION V

- The subject-matter of claim 1 is novel over D1 on account of the 2-aminopyridine 1). moiety of the claimed derivatives (Article 33(2) PCT).
- The application is concerned with CB2 receptors modulators. 2).

D1 which discloses compounds that bind to cannabinoid (CB2) receptors is regarded as representing the closest prior art.

In view of this prior art, the technical problem underlying the application is seen in the provision of further CB2 receptors modulators.

The skilled man faced with the problem of finding further CB2 receptors modulators would not have arrived at the claimed compounds in the light of D1 having regard to the huge structural differences between the claimed derivatives and those of D1.

The subject-matter of claims 1 to 9 involves therefore an inventive step (Article 33(3) PCT).